Fort Hood Semi-Annual Weather Briefing

SUMMER TRANSITION SEASON

3d Weather Squadron (3 WS)

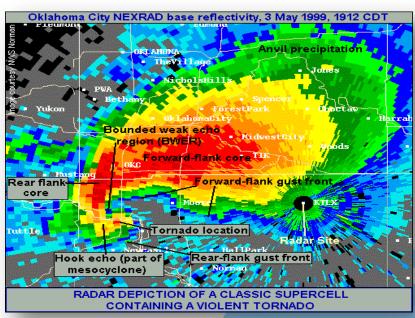
Updated 12 April 2012



OVERVIEW



- Local Area Influences
- Summer Climatology
- Hazards
- Training Areas
- Watches/Warnings/Advisories
- Weather Operations
- POCs





Summer Synoptic Pattern



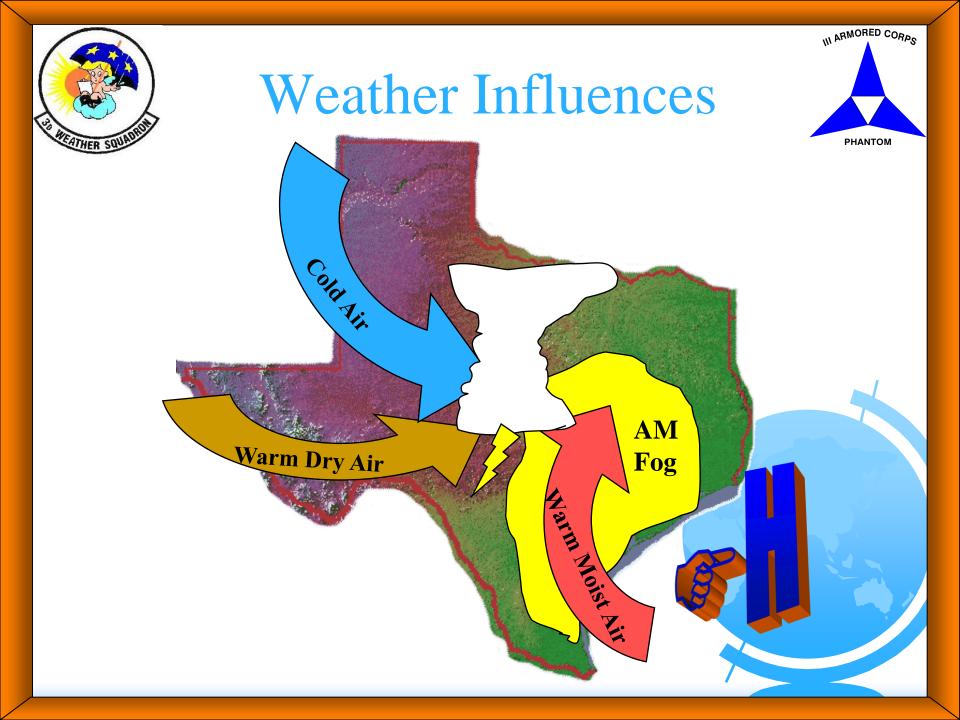
- Marked by the northward movement of the Bermuda High
- Few true frontal passages with the Polar Front Jet remaining well north, keeping region hot & humid
 - Few that do pass are weak and mainly affect the panhandle region
- Most weather associated with Gulf moisture, dryline--"Marfa Front"



Local Area Influences



- Rolling hills with peaks up to 1,500'
- Large lake areas and abundant foliage
 - Act as moisture sources for thunderstorms and fog
- Flat basin surrounded by hills
- "I-35 Rule" Storms dissipate over us; regenerate or intensify east of I-35
- Isolated weather conditions throughout reservation
 - What looks good at RGAAF and HAAF can be different on the north and east-side of the reservation
- Low river crossings, hard ground, low water retention causes flash flood situations





Summer Weather



- Dominated by high temperatures and isolated afternoon and evening thunderstorms (primarily early summer)
 - Average high temperatures are in the mid 90s and lows in the low 70s
 - Extremes range from 55F to 111F
- Early Summer is the rainy season
 - Mostly from thunderstorms

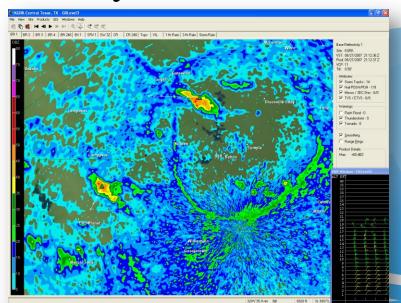


Summer Weather (Cont)



Air mass thunderstorms form during the heat of the day and generally move slowly with weak steering flow aloft or can remain stationary late afternoon and

early evening





Climatological Data



May Jun Jul Aug Sep

Temperature

Mean Max (F) 83 90 95 94 88

Mean Min (F) 64 71 74 74 68

Extm Max (F) 102 108* 109 108 111

Precipitation

Mean Month (inch) 4.4 3.6 1.8 2.7 2.5

Mean # TSTM Days 8 7 5 5 4



CEILING CLIMO

PHANTOM

IN ARMORED CORPS

(< 1,000 Ft)

% Ceiling < 1000 ft Name: ROBERT GRAY AAF, TX United States Block Station: 722576

ICAO: KGRK Lat: 31.067 Lon: -97.833 Time Offset: -6.00

Data Derived from 14WS Surface Observation Database / POR: 1973 - 2005

14WS (AFWA) 151 Patton Ave, Rm 120 Asheville, NC 28801-5002

23Z (17L)	14	12	9	4	2	1	0	1	3	5	10	14
22Z (16L)	15	12	7	5	2	1	0	1	3	5	9	14
21Z (15L)	15	12	8	5	2	1	0	0	3	6	10	14
20Z (14L)	16	13	10	6	1	1	0	1	3	7	10	15
19Z (13L)	19	15	11	7	2	2	0	1	3	8	12	15
18Z (12L)	20	17	13	8	3	1	1	1	5	9	11	17
17Z (11L)	24	20	17	11	5	2	1	2	6	11	14	20
16Z (10L)	25	25	20	14	7	4	1	3	7	14	19	23
15Z (09L)	27	27	22	19	12	5	2	4	11	20	23	25
14Z (OBL)	27	27	25	23	16	10	4	6	15	24	26	25
13Z (07L)	27	29	24	25	21	13	7	7	17	25	25	25
12Z (06L)	26	28	25	22	21	12	7	6	16	25	23	23
11Z (05L)	25	24	22	18	20	13	6	5	12	19	21	22
10Z (04L)	27	23	21	16	17	11	5	5	12	18	21	22
09Z (03L)	25	23	20	15	12	7	4	4	10	17	19	21
08Z (O2L)	24	20	18	14	10	6	3	3	10	15	17	21
07Z (01L)	22	19	18	11	9	4	2	2	9	12	17	20
0 6 Z (QOL)	21	17	17	9	7	3	2	2	6	10	14	19
05Z (23L)	20	16	14	9	5	3	1	2	5	9	14	20
04Z (22L)	18	16	12	00	4	2	1	1	4	8	13	17
03Z (21L)	16	14	11	6	3	2	1	1	4	7	13	16
02Z (20L)	14	16	11	6	3	2	0	1	3	6	12	15
01Z (19L)	14	14	10	5	3	1	0	1	3	5	11	14
00Z (16L)	14	13	10	5	2	1	0	1	3	5	10	13
	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

20



VISIBILITY CLIMO



(< 3 SM)

% Visibility < 3 SM</p>
Name: ROBERT GRAY AAF, TX United States
Block Station: 722576

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00Z (16L)	10	8	6	3	1	1	0	0	2	3	5	7
	Jan	Feb	Mar	Арг	Мау	Jun	Jul	4	Sep	Oct	Nov	Dec
	van	Γ θ υ	MOI	Αрі	мау	vuii	vui	Aug	Эер	UCC	1404	Dec





Summer Hazards



Degraded Flying Operations

- Thunderstorms
 - Downbursts Gusts
 - Lightning
 - Hail

High Temperatures

- Coupled with high humidity can cause heat injuries and rapid fatigue
- Ambient temperatures appear to feel warmer than actual temperature (heat index), watch outdoor activity closely



Summer Hazards



Thunderstorms

- Strong gusty wind
- Turbulence
- Low ceilings
- Reduced visibilities
- Hail
- Severe weather possible





THUNDERSTORMS



- Expect severe turbulence, icing, and hail
- Greatest turbulence between updrafts and downdrafts
- Gust fronts (pseudo cold front) can form ahead of advancing thunderstorms
- Expect hail beneath the anvil (not only within or under the thunderstorm)



SEVERE WEATHER



- Peak season
 - March through June
- Most frequent: afternoon/evening hours
- Linear formation along or ahead of fronts—dry line thunderstorms
- RAPID FORMATION!
 - Outflow boundaries enhance further development (usually to the southwest of the line)





LIGHTNING AND ELECTROSTATIC DISCHARGE

III ARMORED CORPS

- Leading cause of weather related aircraft accidents
- Can occur in clear air as well as within and around a thunderstorm







- Turbulence is one of the most unexpected aviation hazards to fly through and one of the most difficult to forecast
- Caused by abrupt, small-scale variations in wind speed and direction
- Pilot Reports (PIREPS) are crucial!
 - May trigger advisories to help warn others
 - Always include location, time, intensity, flight level, and aircraft type

Gray METRO: UHF 306.5 / FM 41.2





(Continued)

- May occur any time without warning
 - Directly proportional to speed:

Faster aircraft=more turbulence experienced

- Inversely proportional to weight:
- Heavier aircraft=less turbulence experienced
- Directly proportional to wing area

Greater distance between leading and trailing edge of wing=more turbulence





(Continued)

- Intensities based upon Airspeed & Climb Rate
 - <u>Light</u>: Slight, erratic changes in altitude and or attitude (pitch, roll, yaw)
 - Moderate: Greater intensity than light, but aircraft remains in positive control
 - Severe: Large abrupt changes in altitude/attitude, large variations in airspeed; control becomes very difficult
 - Extreme: Aircraft violently tossed around with control virtually impossible; may cause structural damage





(Continued)

- Also caused by strong wind over rough terrain (Fort Hood area not considered rough terrain)
 - Rougher terrain = More turbulence
 - Higher wind speed = More Turbulence
- Frontal Transition Zone Turbulence
- Jet Stream (CAT)



III ARMORED CORPS

(Continued)

- Wake Turbulence: Caused by 'Wingtip Vortices'
- Virtually all aircraft produce wingtip vortices while in flight, even rotary wing aircraft; this is especially apparent with heavier aircraft





LOW-LEVEL WIND SHEAR (LLWS)



- Rapid change in wind direction or speed below
 2,000 feet AGL
- May occur with or without Turbulence
- Causes sudden changes in aircraft performance and attitude
- Common occurrence in Central Texas associated with nocturnal low-level jet
- © Can occur with fronts and thunderstorm gust fronts (microburst)

Gray METRO: UHF 306.5



WEATHER WATCHES



- Issued for the *potential* of weather conditions that can effect operations and safety at *Ft Hood and/or the Western Training Area* -- Command decision on whether or not operations are altered
- Valid Times per text
- Valid for area described in text
 - Western Training Area (Entire area or specific sector(s)--northeast, southeast, southwest or northwest)



WEATHER WARNINGS



- Take actions to protect property and life
- Valid Times per text
 - Observed Warnings valid Until Further Notice (UFN)
- Valid for area described in text
 - Fort Hood Reservation (Includes or does not include RGAAF and/or HAAF)
 - Western Training Area (Entire area or specific sector(s)--northeast, southeast, southwest or northwest)



General -- All Ft Hood <u>advisories are observed</u> thus have the same effect on flight ops as warnings do

Terminal Weather Advisories

- Valid within 5 NM of RGAAF and HAAF
- Issued for weather conditions that effect airfield/flight operations and safety

Area Weather Advisories

- Valid within 50 NM of Fort Hood Reservation
- Issued for weather conditions that effect local flight operations/safety



Fort Hood Reservation



Watch / Warning / Advisory

Fort Hood Reservation

WEATHER WARNINGS:

- Tornado (30 min)
- Damaging Wind \geq 50 kts (2 hrs)
- Hail \geq 3/4 inch dia (2 hrs)
- High Wind 35-49 kts (90 min)
- Hail 1/2-<3/4 inch dia (90 min)
- Lightning (Observed)
- Heavy Rain or Snow (90 min)
- Freezing Precipitation (90 min)
- Blizzard Conditions (90 min)

WEATHER WATCH

(Forecast Potential)

- Tornado
- Damaging Wind \geq 50 kts
- Hail \geq 3/4 inch dia
- Lightning (30 min)
- Heavy Rain or Snow
- Freezing Precipitation
- Blizzard Conditions

Longhorn

HLR

GRK

TERMINAL WEATHER ADVISORIES:

 $WND \ge 30kts (Observed)$

Gust Sprd \geq 15kts (Observed)

AREA WEATHER ADVISORIES:

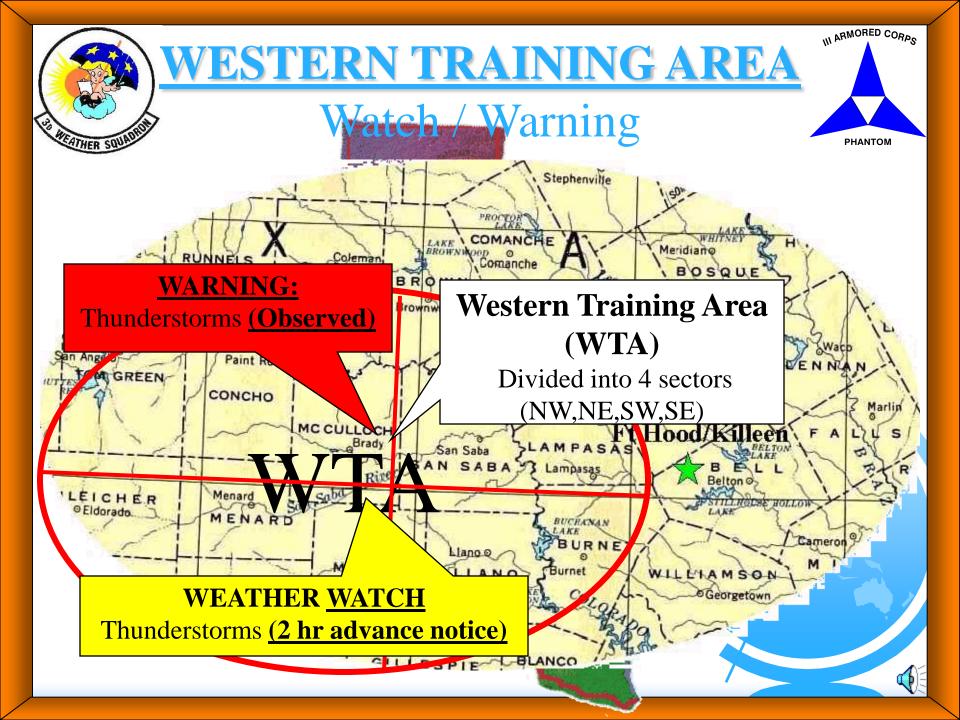
MDT TURBC (Observed)

MDT ICG (Observed)

LLWS < 2k AGL (Observed)

Wind Chill $\leq 10F$ (Observed)





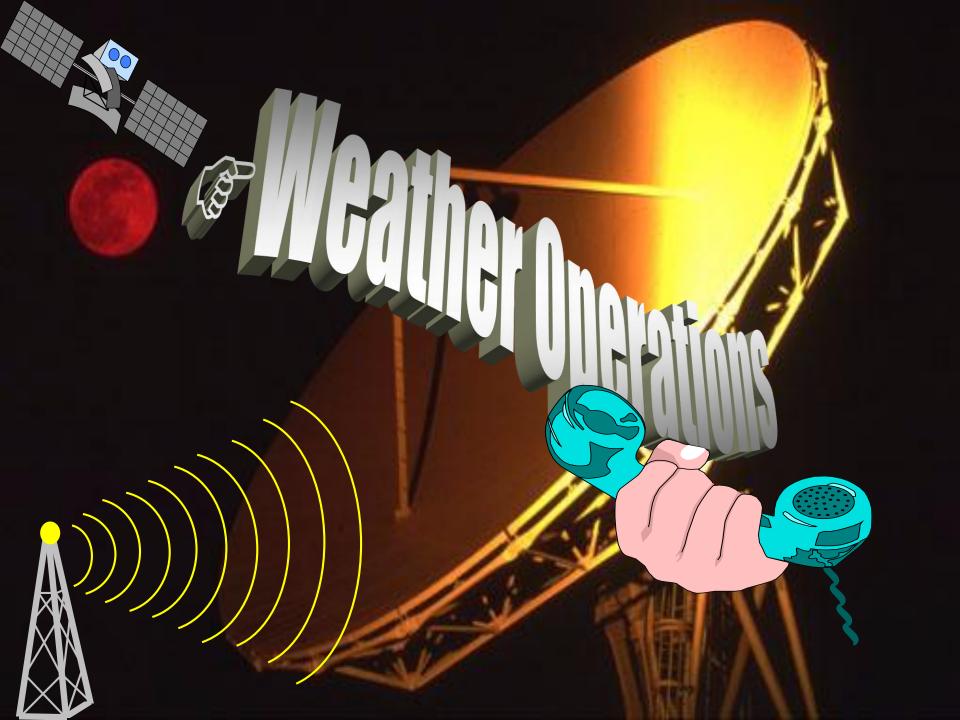


PILOT REPORTS (PIREPS)



- Provide forecasters additional observations around the reservation and Western training areas
 - Thunderstorms
 - Turbulence
 - Icing
 - Low-Level Wind Shear (LLWS)
 - Cloud conditions
 - Wind, temperature, etc..
 - Visibility, weather (i.e., fog, rain, etc.)
- PMSV frequencies: UHF 306.5 ←







RGAAF Weather Station Operations



- RGAAF Weather Station located on West Fort Hood, Airfield Ops Bldg 90029:
 - -24/7 Operations
 - 2 Forecasters Mon-Fri 0600-1400L
 - 1 Forecaster Nights, Weekends, & Holidays
 - Manual Weather Observations
 - Flight Weather Briefings
- HAAF: Automated Weather Observations Only

Gray METRO: UHF 306.5



FLIGHT WEATHER BRIEFINGS



- Call 288-9620 or 288-9400
- E-mail: hood.3asog3ws.woc@us.army.mil
- Please arrange DD175-1 weather briefings as far in advance as possible
- IAW AR 95-1, ONLY PILOTS CAN RECEIVE FLIGHT WEATHER BRIEFINGS



FLIGHT WEATHER BRIEFINGS (Continued)



- DD175-1 Weather Briefs can be faxed or E-mailed
- IMPORTANT: Aircrews must call 288-9620/9400 after receiving the brief for briefer's initials, brief & void times--otherwise briefing is not official!
- For weather information visit our web site:

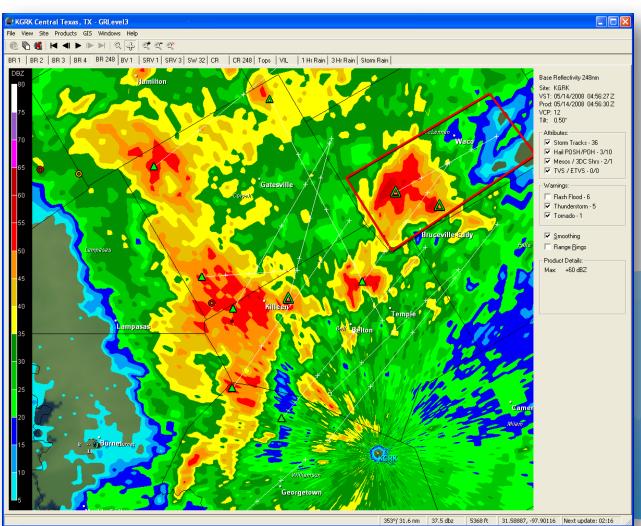
www.hood.army.mil/3ws

- Current local airfield weather conditions
- Current weather watches, warnings, advisories
- Other weather information products



DOPPLER RADAR TECHNOLOGY ARMORED CORPOS







DOPPLER RADAR TECHNOLOGY



- Tracks storm movement
- Provides vertical wind profiles (LLWS)
- Determine storm relative motion
- Highlights "potential" severe weather
 - Hail
 - Storm rotation--Tornadoes
- Cross-sections







3D Weather Squadron Homepage

www.hood.army.mil/3ws



Fort Hood Home Page







3D Weather Squadron Homepage

t Explorer provided by US Army - Fort Hood NIPRNet



Current ME Fitt Fauth

3d Weather Squadron

Current WWASTHER SOUTH

"2010 AIR FORCE OUTSTANDING BATTLEFIELD WEATHER SQUADRO



WEDNESDAY, JUNE 29

OKI HOOD WEATHER

*FORT HOOD WEATHER WATCHES WARNINGS, AND ADVISORIES

lick above for active Weather Watch Warnings, and Advisories for Port Hood

*KGRK OBSERVATION & TAF

*KHLR OBSERVATION

AVIATION WEATHER

PILOT REPORTS (PIREPS)

Current Obs. AIRMETS/SIGMETS

SPACE WEATHER IMPACTS

CLICK BELOW FOR FLIGHT WEATHER BRIEFINGS OR OTHER REQUESTS FOR WEATHER SUPPORT:

WEATHER STATION E-MAIL

RGAAF PMSV (Gray Metro):

IMAGES BELOW DO NOT DEPICT ACTUAL CONDITIONS CLICK ON THUMBNATIS FOR CURRENT INFORMATION

MISSION EXECUTION FORECAST/5-DAY FORECAST

Mission Execution Forecast	5-Day Forecast		

SATELLITE/RADAR/LIGHTNING/HAZARDS

- Aller	

Satellite Imagery

Fort Hood Doppler Radar

BRIEFINGS SEMI-ANNUAL AVIATION WEATHER BRIEF (SUMMER)

SEMI-ANNUAL AVIATION WEATHER BRIEF (WINTER)

AIR TRAFFIC CONTROL WEATHER TRAINING

MANUAL WEATHER OBSERVING - JET

DRY-LINE FORECASTING 3 WS MIRF/RIRF DRYLINE EXAMPLE

TURBULENCE--AIRCRAFT CATEGORIES

RADAR IMAGES TORNADO 25APR11

PERFORMANCE METRICS: HOW WELL ARE WE FORECASTING?

DoD WEATHER

*JOINT ARMY-AF WEATHER INFORMATION NETWORK (JAAWIN)



5-Day Forecast



October Climatology



Fort Hood Avg Precip: 3.6 Inches 5-Day Weather Outlook & Effects

AS OF 0500 HRS LOCAL 12 OCT 10 Tue 12 Oct 10 Wed 13 Oct 10 Thu 14 Oct 10 Fri 15 Oct 10 Sat 16 Oct 10 LO: 57F/14C HI: 86F/30C LO: 59F/15C HI: 79F/26C LO: 50F/10C HI: 79F/26C LO: 45F/7C HI: 81F/27C LO: 46F/8C HI: 79F/26C **TEMPS** 43F/6C N/A N/A N/A N/A N/A N/A N/A 44F/6C 10G15 10G15 WINDS 6KTS 6KTS 4 MI / NO CIG 7 MI I NO CIG SKYVISWX 7 MI / NO CIG 7 MI/NO CIG 7 MI / NO CIG 7 MI / NO CIG 7 MI / NO CIG 7 MI / 25000FT 7 MI / NO CIG CONDITIONS 0540 0640 EENT: 1954 BMNT: 0641 EENT: 1953 0642 0642 1951 SOLAR 1902 0733 1900 0735 LUNAR 2359 DATA DARK 6:40 / 0:59 MOON DARK 6:40 / 0:01 MOON PERCO MOON 0:57 / 4:08 DARK 3:06 4:05 6:41 4:07 5:45 **PERIOD** ILLUM DATA UAV CONVOY T PERSONNEL JLENS RADAR INFRARCO SENSORS VISUAL SENSORS T - Temperature RH - Rel Humidity FORECASTER: 3 WS FOR OFFICIAL USE ONLY

FOR PLANNING PURPOSES ONLY

Integrity - Service - Excellence



3 WS Mission Planning & Execution Forecast (Flimsy)



- Located on our web page: www.hood.army.mil/3ws
- Updated 3 times daily (0000Z, 0800Z, 1600Z)
- Amended:
 - Ceiling 3000 ft
 - Ceiling/Visibility 1000 ft / 3 SM (IFR VFR)
 - Ceiling/Visibility 500 ft / ½ SM (HAAF Airfield Minimums)
 - Thunderstorms, Moderate or Greater Icing & Turbulence
- Aircrews flying within Fort Hood Reservation & Test Flight Areas III/V must call for official brief
 - Call the weather station at 288-9620 or 9400 to verify current Flimsy #, any updates, brief/void time and forecaster's initials
 - Units' ops may post copy of flimsy in common areas for aircrews (IMPORTANT: Check website periodically for changes especially during inclement weather)



YELLOW ROUTE

RED ROUTE

MEF (Flimsy)

3rd Weather Squadron - Windows Internet Explorer provided by US Army - Fort Hood NIPRNet





VIND / VISIBILITY / SIG WEATHER / SKY CONDITION (AGL) 15012 7 CLR // AFT 01Z 15006 7 CLR

15012 7 CLR // AFT 01Z 15006 7 CLR

15012 7 CLR // AFT 01Z 15006 7 CLR

CLICK HERE FOR LATEST WEATHER WATCHES, WARNINGS, AND ADVISORIES (OR GO TO 3 WS WEBPAGE)

www.hood.army.mil/3ws/Flimsy/MEF.pdf



MEF – Flight Hazards



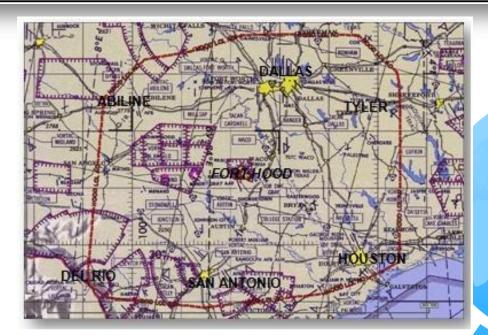
FLIGHT HAZARDS WITHIN ~150NM OF FORT HOOD (LOCAL FLYING AREA IAW FHR95-1)

HAIL, SEVERE TURBULENCE & ICING, HEAVY PRECIP, LIGHTNING & WIND SHEAR EXPECTED IN & NEAR THUNDERSTORMS

HAZARD	LEVEL (MSL)	INTENSITY/COVERAGE	LOCATION
TSTMS MAX TOPS 450		ISOLD	NORTH OF A LINE FROM CLL-GRK-SJT
ICING	060-160	LGT RIME	N1/2 LOCAL FLYING AREA (N OF AUS) TIL 21Z
TURBC CAT II	SFC-080//180-400	LGT-MDT // MDT	ENTIRE LFA TO INCLUDE FORT HOOD RES TIL 00Z
TURBC CAT I SFC-080		MDT	ENTIRE LFA TO INCLUDE FORT HOOD RES TIL 00Z

CAT II AIRCRAFT (UH-60, AH-64, CH-47, BE-20, UC-35, C-208) // CAT I AIRCRAFT (UH-1, OH-58, HUNTER UAS, SHADOW UAS)

NOTE: AN AIRCRAFT'S WEIGHT, AIRSPEED, AND/OR ALTITUDE MAY CHANGE ITS TURBULENCE CATEGORY FROM ITS DEFAULT VALUE



Local Flying Area (LFA) – FHR95-1



MEF – Turbulence



	FLIGHT HAZARDS WITHIN ~150NM OF FORT HOOD (LOCAL FLYING AREA IAW FHR95-1) HAIL, SEVERE TURBULENCE & ICING, HEAVY PRECIP, LIGHTNING & WIND SHEAR EXPECTED IN & NEAR THUNDERSTORMS			
I	HAZARD	LEVEL (MSL)	INTENSITY/COVERAGE	LOCATION
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4	TURBC CAT II SFC-080//180-400 TURBC CAT I SFC-080		LGT-MDT // MDT	ENTIRE LFA TO INCLUDE FORT HOOD RES TIL 00Z
¥			MDT	ENTIRE LFA TO INCLUDE FORT HOOD RES TIL 00Z
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ı				

- Different types of aircraft have different sensitivities to turbulence
 - An aircraft's sensitivity varies considerably with its weight (amount of fuel, cargo, munitions, etc.), air density, wing surface area, wing sweep angle, airspeed, and aircraft flight "attitude"
 - An aircraft's weight, airspeed, and/or altitude may change its turbulence category from its default value
- Turbulence forecasts in TAFs are for CAT II aircraft



UAS (Shadow) MEF



- Use 3 WS MEF (Flimsy) for mission planning
- Contact RGAAF weather station for actual flight weather briefs
 - Provide Unit, Phone #, Location (i.e., LSCS), Aircraft Tail#, Launch/Landing Time, Flight Level, and Pilot Name

SHADOW UAS MISSION EXECUTION FORECAST UNIT / PHONE#: LOCATION: MONTH/YEAR:

TAIL#	LAUNCH DTG:	RECOVERY DTG:	FLIGHT LEVEL:
TEMP (C)		WIND/TEMP ALOFT (C)	
DEWPOINT (C)		2K MSL	
RH (%)		4K MSL	
ALSTG		6K MSL	
PA		8K MSL	
DA		10K MSL	
SFC WINDLAUNCH		THUNDERSTORMS	
SFC WINDRECOVERY		TURBULENCE (CAT I Aircraft)	
MIN VIS / WX		ICING	
MIN CIG			
FREEZING LVL		BRIEF / VOID TIME	
WWA (#)		INITIALS BRIEFER/PILOT	
		EXTENDED TIME	
		INITIALS BRIEFER/PILOT	



UAS (Shadow) MEF



SHADOW UAS MISSION EXECUTION FORECAST MONTH/YEAR:

UNIT / PHONE#: LOCATION:

TAIL#	LAUNCH DTG:	RECOVERY DTG:	FLIGHT LEVEL:
TEMP (C)		WIND/TEMP ALOFT (C)	
DEWPOINT (C)		2K MSL	
RH (%)		4K MSL	
ALSTG		6K MSL	
PA		8K MSL	
DA		10K MSL	
SFC WINDLAUNCH	A	THUNDERSTORMS	
SFC WIND-RECOVERY		TURBULENCE (CAT I Aircraft)	
MIN VIS / WX		ICING	
MIN CIG			
FREEZING LVL		BRIEF / VOID TIME	
WWA (#)		INITIALS BRIEFER/PILOT	
		EXTENDED TIME	
		INITIALS BRIEFER/PILOT	

Minimum/worst conditions expected for the mission duration



Forecast Performance Metrics



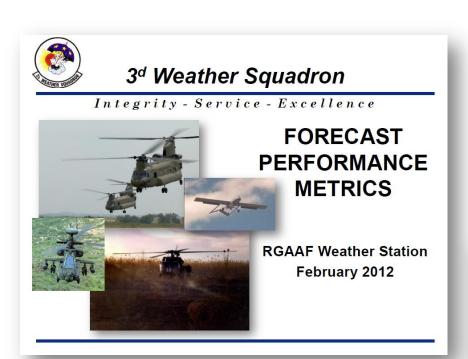
- How well are we forecasting mission impacting weather?
- Best measure of our performance is direct feedback from aircrews:
 - Click on "Feedback Icon" on flimsy; send an E-mail
 - Complete Flight Weather Briefing Feedback Form on our webpage or faxed with all DD175-1s
 - Call RGAAF weather station NCOIC at 288-9166
- We'll take good and bad comments!!!

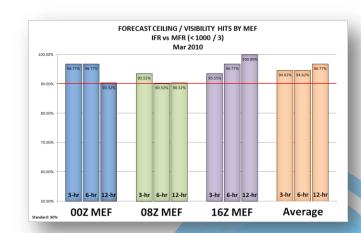


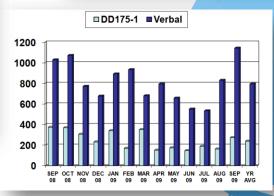
Monthly Performance Metrics



Check out our monthly performance reports on our web site: www.hood.army.mil/3ws/MEFVERFeedback.ppt









Objective Verification



- In addition to direct feedback we employ an objective method to measure (verify) our forecast performance:
 - We selected three key operational parameters:
 - Ceiling / Visibility < 1000 feet / 3 miles (IFR)</p>
 - Ceiling / Visibility < 500 feet / 1/2 mile (HLR Airfield Minimums)</p>
 - Thunderstorms

 - We use observations at GRK, HLR, and GOP (Gatesville) and any PIREPs to verify each flimsy at the 3-, 6-, and 12-hour point from the original issuance time



Did the Forecast or Weather Impact the Mission?



- ☑ Did we forecast "GO" weather for your mission and weather was a "GO" -- mission completed
- Did we forecast "GO" weather for your mission and weather was a "NO GO" -- mission cancelled or changed due to unforecast weather
- ☑ Did we forecast "NO GO" weather for your mission and weather was "GO"-- mission cancelled or changed due to forecast (lost opportunity or needless change)
- Did we forecast "NO GO" weather for your mission and weather was "NO GO" -- mission cancelled or changed due to forecast/weather (if inserted early in planning process this situation can prevent wasted time and enhance planning process)



POCs



- 3 WS Commander: **288-1313**

3 WS Operations Officer: 287-7397

Operations Superintendent: 287-2948

RGAAF Weather Station NCOIC: 288-9166

RGAAF Weather Station: 288-9620/9400

Corps Weather Plans
 288-9176/5965/0197

Gray METRO: UHF 306.5



SUMMARY



- Local Area Influences
- Summer Climatology
- Hazards
- Training Areas
- Watches/Warnings/Advisories
- Weather Operations
- POCs



